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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,167	02/14/2005	Rene Govaerts	66722-067-7	5618

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WASHINGTON, DC 20005

EXAMINER
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LU, ZHIYU

ART UNIT	PAPER NUMBER
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2618

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/22/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/520,167	<b>Applicant(s)</b> GOVAERTS, RENE	
	<b>Examiner</b> Zhiyu Lu	<b>Art Unit</b> 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 14 November 2006.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, it is confusing that Applicant claims "... and a wireless transmitter and receiver for communicating wirelessly a communication line signal in one direction from a first of said two input/output units directly to a second of said two input/output units and for communicating wireless a communication signal in another direction from the second of said two input/output units directly to the first of said two input/output units for input to the communication line..." because a wireless communication does not transmit a signal through communication line. And claim 8 has the same indefiniteness.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchiyama (US Patent#6766175) in view of Umstetter et al. (US2002/0115455).

Regarding claim 1, Uchiyama teaches a communication system (Figs. 1 and 7) for use in connection with a stationary communication line (column 6 lines 8-12), the communication system comprising two input/output units (4 and 6 of Figs. 1 and 7), each of said input/output units comprising a first connector for connection of a communication line thereto, a second connector for connection of an input/output device thereto (column 7 lines 23-48), a rechargeable battery, a third connector for connection of a charging voltage to the rechargeable battery therein (column 6 lines 17-19), and a wireless transmitter and receiver for communicating wirelessly a communication line signal in one direction from a first of said two input/output units to a second of said two input/output units and for communicating wirelessly a communication signal in another direction from the second of said two input/output units to the first of said two input/output units for input to the communication line, such that the two input/output units are interchangeable (column 5 lines 46-50, column 6 lines 5-8).

But, Uchiyama does not expressly disclose the two units directly communicate with each other wirelessly.

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However, Uchiyama teaches wireless handset can use direct interface link for data transfer but not radio link (column 8 lines 7-17); the wireless handset and cordless handset are interconnected (column 5 lines 46-11); and multiple handsets can communicate with each other (column 6 lines 5-8).

Umstetter et al. teach two cordless handsets directly communicate with each other and wherein a first cordless handset acts as a repeater for a second cordless handset to communicate with a base station (Fig. 1B).

In light of Uchiyama's teaching, it would have been obvious to one of ordinary skill in the art to recognize that Umstetter et al.'s first cordless handset can act as a repeater for the second cordless handset communicate with the base station via physical interface connection once the first cordless handset sits in a cradle of the base station.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate repeating function of cordless handset taught by Umstetter et al. into the communication system of Uchiyama, in order to extend wireless range of the system.

Regarding claim 8, Uchiyama and Umstetter et al. teach an input/output unit as explained in the response to claim 1 above.

Regarding claim 2, Uchiyama and Umstetter et al. teach the limitation of claim 1.

Uchiyama teaches wherein the system comprise a base station for receiving at least one of said two input/output units (Fig. 1), said base station comprising a charging connector and a

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communication line interface both for connection to either of the two input/output units (column 7 lines 23-48).

Regarding claim 3, Uchiyama and Umstetter et al. teach the limitation of claim 1.

Uchiyama teaches the system comprises a base station for receiving at least two input/output units (Fig. 1).

Regarding claims 4-5, Uchiyama and Umstetter et al. teach the limitation of claim 3 and 2.

Uchiyama teaches the base station comprises circuitry (128 of Fig. 7) for controlling charging of a rechargeable battery in one or both input/output units (column 6 lines 13-39).

Regarding claims 6 and 9, Uchiyama and Umstetter et al. teach the limitations of claims 1 and 8.

Uchiyama teaches wherein a combined connection which provides data communication connection and at the same time provides a charging voltage connection for charging the rechargeable battery is provided in each of said two input/output units (column 7 lines 23-48).

Regarding claims 7 and 10, Uchiyama and Umstetter et al. teach the limitations of claims 1 and 8.

Uchiyama teaches the input/output unit comprises a communication protocol allowing change of the receiver/transmitter status of two units during operation (inherent).

*Conclusion*

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zhiyu Lu whose telephone number is (571) 272-2837. The examiner can normally be reached on Weekdays: 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571) 272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Zhiyu Lu  
February 7, 2007

  
NAY MAUNG  
SUPERVISORY PATENT EXAMINER